

#### 10302002 WALKER RIVER AT LATERAL 2-A SIPHON NEAR SCHURZ, NV

WALKER RIVER BASIN, WALKER RIVER BASIN

LOCATION.--Lat 38°56′25″, long 118°48′10″ referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.36, T.13 N., R.28 E., Mineral County, Hydrologic Unit 16050303, on left bank, 0.4 mi east of U.S. Highway 95 and U.S. Alternate Highway 95 Junction, and 0.9 mi southeast of U.S. Highway 95 Highway Bridge in Schurz.

DRAINAGE AREA.--Not determined.

#### **WATER-DISCHARGE RECORDS**

PERIOD OF RECORD .-- Oct 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,140 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation above station. Flow regulated by Bridgeport Reservoir (station 10292500), Topaz Lake (station 10297000), and Weber Reservoir (station 10301700), combined capacity, 112,600 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,400 ft³/s, Jan 9, 1997, gage height, 7.39 ft, maximum gage height, 7.82 ft, Jul 16, 1995; no flow many days, some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,580 ft<sup>3</sup>/s, Jun 4, gage height, 6.53 ft; minimum daily discharge, 0.00 ft<sup>3</sup>/s, on many days.

## 10302002 WALKER RIVER AT LATERAL 2-A SIPHON NEAR SCHURZ, NV—Continued

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.00	0.00	0.00	22	15	26	833	290	14	3.6
2	0.00	0.00	0.00	0.00	0.00	33	15	25	1,050	313	13	3.1
3	0.00	0.00	0.00	0.00	0.00	35	16	11	1,400	360	11	3.4
4	0.00	0.00	0.00	0.00	0.00	33	13	7.5	1,400	458	9.5	3.9
5	0.00	0.00	0.00	0.00	0.00	27	10	4.5	1,360	636	8.4	4.7
6	0.00	0.00	0.00	0.00	0.00	24	10	4.4	1,350	669	8.3	6.2
7	0.00	0.00	0.00	0.00	0.00	24	10	2.9	1,350	671	5.2	6.1
8	0.00	0.00	0.00	0.00	0.00	16	9.2	2.2	1,340	665	3.9	5.7
9	0.00	0.00	0.00	0.00	0.00	8.1	6.8	1.9	1,320	675	3.6	5.2
10	0.00	0.00	0.00	0.00	0.00	6.2	5.7	1.5	1,330	672	5.1	4.7
11	0.00	0.00	0.00	0.00	0.00	4.6	5.1	0.86	1,330	671	4.1	4.0
12	0.00	0.00	0.00	0.00	0.00	3.4	5.4	0.60	1,250	673	4.5	3.5
13	0.00	0.00	0.00	0.00	0.00	2.5	5.0	0.54	897	673	5.3	3.4
14	0.00	0.00	0.00	0.00	0.00	1.5	4.7	0.51	562	665	5.5	3.5
15	0.00	0.00	0.00	0.00	0.00	0.55	4.2	0.52	550	646	3.9	3.4
16	0.00	0.00	0.00	0.00	0.00	0.44	4.4	0.71	523	583	4.3	3.3
17	0.00	0.00	0.00	0.00	0.00	0.40	4.6	0.67	522	478	4.4	4.0
18	0.00	0.00	0.00	0.00	0.00	0.11	4.8	0.60	548	463	4.5	3.8
19	1.8	0.00	0.00	0.00	0.00	0.00	4.3	0.54	797	449	3.9	3.2
20	42	0.00	0.00	0.00	0.00	0.00	4.1	0.50	1,110	402	5.3	3.2
21	50	0.00	0.00	0.00	0.00	0.00	3.4	114	1,200	296	6.1	3.7
22	19	0.00	0.00	0.00	0.00	0.00	14	262	1,250	200	5.7	3.2
23	4.4	0.00	0.00	0.00	0.00	0.00	24	555	1,180	189	5.5	2.5
24	1.6	0.00	0.00	0.00	0.00	0.00	25	659	790	194	5.2	2.6
25	0.54	0.00	0.00	0.00	0.00	0.00	25	679	413	191	5.2	2.3
26	0.26	0.00	0.00	0.00	0.00	0.00	25	692	390	169	5.5	1.8
27	0.00	0.00	0.00	0.00	0.00	0.00	26	739	351	136	6.8	2.1
28	0.00	0.00	0.00	0.00	0.00	0.00	26	763	305	116	4.7	1.9
29	0.00	0.00	0.00	0.00		0.02	26	759	284	74	5.6	1.8
30	0.00	0.00	0.00	0.00		13	25	757	287	25	3.7	1.5
31	0.00		0.00	0.00		14		780		17	3.6	
Total	119.60	0.00	0.00	0.00	0.00	268.82	376.7	6,851.95		12,719	185.3	105.3
Mean	3.86	0.00	0.00	0.00	0.00	8.67	12.6	221	909	410	5.98	3.51
Max	50	0.00	0.00	0.00	0.00	35	26	780	1,400	675	14	6.2
Min	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.50	284	17	3.6	1.5
Ac-ft	237	0.00	0.00	0.00	0.00	533	747	13,590	54,090	25,230	368	209

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2005, BY WATER YEAR (WY)

	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	20.2	55.6	70.9	196	179	126	82.1	322	487	258	50.5	16.7
Max	74.5	220	198	1,557	914	410	321	918	1,206	1,438	339	76.2
(WY)	(1999)	(1999)	(1999)	(1997)	(1997)	(1996)	(1998)	(1997)	(1995)	(1995)	(1995)	(1998)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1995)	(1995)	(1995)	(1995)	(1995)	(1995)	(2002)	(2002)	(2002)	(2002)	(2001)	(2001)

# 10302002 WALKER RIVER AT LATERAL 2-A SIPHON NEAR SCHURZ, NV—Continued

## **SUMMARY STATISTICS**

	Calendar Year 2	2004	Water Year	2005	Water Years	1995 - 2005
Annual total	4,811.81		47,898.67			
Annual mean	13.1		131		155	
Highest annual mean					431	1997
Lowest annual mean					0.39	2002
Highest daily mean	224 A	Apr 21	1,400	Jun 3	2,300	Jan 10, 1997
Lowest daily mean	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1994
Annual seven-day minimum	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1994
Maximum peak flow			1,580	Jun 4	2,400	Jan 9, 1997
Maximum peak stage			6.53	Jun 4	7.82	Jul 16, 1995
Annual runoff (ac-ft)	9,540		95,010		112,400	
10 percent exceeds	42		651		523	
50 percent exceeds	0.00		2.5		21	
90 percent exceeds	0.00		0.00		0.00	

#### 10302002 WALKER RIVER AT LATERAL 2-A SIPHON NEAR SCHURZ, NV—Continued

#### **WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Nov and Dec 1993, May to Jun 1996, Nov 1996 to current year.

#### PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: May 1995 to Jun 1996 (seasonal), Nov 1996 to current year.

WATER TEMPERATURE: May 1995 to Jun 1996 (seasonal), Nov 1996 to current year.

INSTRUMENTATION.--Specific conductance and water temperature monitor May 1995 to Jun 1996, Nov 1996 to current year, four times per hour.

REMARKS.--Instantaneous specific-conductance and water-temperature measurements during a site visit can be slightly outside the range of values recorded during the same day by the water-quality monitor. This presumably is due to fluctuations in conductance and temperatureduring the interval between periodic monitor recordings. Records represent water temperature at probe within 0.5°C. Interruptions in record due to partial or no flow during the day or during some days.

#### EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 931 microsiemens, cm at 25°C, Oct 17, 2000; minimum daily, 143 microsiemens, cm at 25°C, May 12, 1998. WATER TEMPERATURE: Maximum recorded, 34.0°C, Jul 24, 2004; minimum daily, freezing point many days during winter months of most years.

#### EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 749 microsiemens/cm, Oct 20 and Sep 29; minimum, 159 microsiemens/cm, Jul 21.

WATER TEMPERATURE: Maximum, 29.5°C, May 14; minimum, 4.0°C, Mar 15.

# 10302002 WALKER RIVER AT LATERAL 2-A SIPHON NEAR SCHURZ, NV—Continued

# SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Max	Min	Mean									
		October			Novembe	r		Decembe	r		January	
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20	749	429	470									
21	442	431	436									
22	452	435	444									
23	469	450	461									
24	486	468	477									
25	511	482	496									
26	524	509	515									
27												
28												
29												
30												
31												
Month												

# 10302002 WALKER RIVER AT LATERAL 2-A SIPHON NEAR SCHURZ, NV—Continued

# SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February	1		March			April			May	
1							517	506	510	503	494	498
2				485	475	478	517	503	509	502	495	498
3				481	475	477	517	505	509	504	492	499
4				480	474	477	519	505	510	517	502	509
5				483	476	478	519	508	513	519	482	506
6				484	476	480	522	511	516	499	485	494
7				484	474	480	523	514	516	514	497	504
8				489	477	482	519	513	516	522	504	510
9				499	478	489	520	512	516	520	506	511
10				507	494	499	529	514	519	524	508	515
11				511	497	501	533	516	522	537	519	527
12				517	497	506	535	518	524	551	527	536
13				520	505	511	532	518	523	559	533	543
14				527	509	516	533	517	522	570	539	552
15				530	513	519	533	517	523	571	547	557
16				530	518	522	535	520	526	571	549	560
17				538	523	529	534	523	527	588	561	574
18				542	529	534	530	520	525	600	572	583
19							526	517	522	605	579	592
20							526	516	521	618	582	597
21							530	518	524	619	441	505
22							534	515	524	448	438	443
23							527	515	522	439	369	405
24							518	508	512	369	320	343
25							513	505	509	320	266	284
26							512	504	507	269	252	260
27							510	496	504	259	246	251
28							508	496	502	256	245	250
29							506	498	502	258	246	252
30				679	542	590	504	496	501	258	246	251
31				544	510	528				258	248	252
Month							535	496	516	619	245	457

# 10302002 WALKER RIVER AT LATERAL 2-A SIPHON NEAR SCHURZ, NV—Continued

# SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August		;	Septembe	r
1	249	230	237				382	351	367	611	570	590
2	232	221	226				406	379	393	625	600	611
3	227	217	222				430	402	417	630	607	618
4	225	218	221				454	426	441	636	613	624
5	220	211	216				475	450	463	629	608	620
6	214	203	210				493	470	482	613	590	604
7	204	194	197							591	560	578
8	196	190	193							613	560	592
9	194	189	191							636	605	622
10	208	181	189							654	628	641
11										666	644	654
12										673	655	664
13							598	566	581	683	663	671
14							590	558	575	688	670	677
15							579	558	569	688	676	681
16							567	528	550	694	680	687
17							548	526	538	699	687	692
18				171	164	168	562	538	552	698	686	693
19				174	166	170	568	547	561	703	687	693
20				178	166	172	588	542	565	696	685	690
21				181	159	170	605	570	582	700	685	692
22				191	162	173	594	577	585	701	687	693
23				186	173	178	599	573	586	711	691	699
24				188	174	181	605	586	595	716	698	706
25				190	181	186	604	585	594	727	708	716
26				203	185	192	602	584	592	728	713	720
27				207	200	207	595	576	585	734	719	727
28				233	213	224	588	570	580	742	727	734
29				260	231	244	611	583	596	749	730	737
30				312	259	284	602	580	589	746	731	737
31				354	309	333	594	571	585			
<b>l</b> onth										749	560	669

# 10302002 WALKER RIVER AT LATERAL 2-A SIPHON NEAR SCHURZ, NV—Continued

# TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	IVIUA									IVIUA		
		October			Novembe	r		Decembe	r		January	
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21	9.0	8.0	8.5									
22	11.0	7.5	8.5									
23	9.0	7.5	8.0									
24	10.0	7.5	8.5									
25	13.5	6.0	9.5									
26 27	10.0	7.0	8.0									
2 <i>1</i> 28												
29 30												
30 31												
Month												

# 10302002 WALKER RIVER AT LATERAL 2-A SIPHON NEAR SCHURZ, NV—Continued

# TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February	1		March			April			May	
1							14.5	9.0	11.0	18.5	15.0	16.5
2				9.5	7.0	8.0	16.0	10.5	12.5	19.0	15.0	17.0
3				8.5	6.0	7.5	16.5	11.5	13.0	22.5	15.5	18.5
4				9.0	7.0	8.0	15.5	9.5	12.0	20.0	16.0	18.0
5				11.0	7.0	8.5	17.0	8.5	12.0	19.5	14.5	16.5
6				11.0	7.0	9.0	17.0	10.5	13.5	15.0	13.0	14.0
7				12.0	7.5	9.5	15.0	11.0	13.0	23.5	12.0	16.0
8				14.0	8.0	10.5	13.5	9.0	10.5	20.5	13.0	16.5
9				16.0	8.0	11.0	13.0	7.0	9.0	22.0	11.0	14.5
10				17.5	9.0	12.5	16.5	7.0	11.0	19.5	9.0	13.5
11				18.0	9.0	13.0	18.5	8.5	12.5	21.5	10.0	15.0
12				19.5	8.5	13.0	19.0	9.5	13.5	25.0	12.0	17.5
13				18.5	8.5	12.0	17.0	10.5	13.0	27.0	13.0	18.5
14				17.5	5.0	10.5	17.5	8.0	12.0	29.5	15.0	21.0
15				17.0	4.0	10.0	18.0	8.0	12.5	25.0	17.5	20.5
16				14.5	5.5	9.5	20.0	9.0	14.0	21.5	14.5	18.0
17				16.5	7.0	10.5	21.5	12.0	15.5	22.5	10.5	16.5
18				18.0	5.0	11.0	19.0	12.0	14.5	28.0	15.0	20.0
19							15.0	9.5	12.0	26.5	15.0	20.0
20							17.0	8.5	12.5	28.5	15.0	20.0
21							20.0	9.0	14.0	21.0	15.0	18.5
22							16.5	11.0	13.5	21.5	18.0	19.5
23							15.0	13.0	14.0	22.0	19.0	20.5
24							15.0	12.0	13.5	22.5	20.0	21.0
25							16.5	11.5	14.0	23.0	20.5	21.5
26							18.0	13.0	15.5	22.5	20.0	21.5
27							17.0	15.0	16.0	23.0	20.5	21.5
28							16.0	13.0	14.5	22.5	20.5	21.5
29							18.0	13.0	15.0	21.0	18.5	20.0
30				14.5	7.5	10.0	18.0	14.5	16.0	21.5	18.5	20.0
31				14.5	8.0	10.5				21.5	18.5	20.0
Month							21.5	7.0	13.2	29.5	9.0	18.5

# 10302002 WALKER RIVER AT LATERAL 2-A SIPHON NEAR SCHURZ, NV—Continued

# TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August		;	Septembe	r
1	21.5	19.0	20.5	26.5	21.5	24.0	26.5	22.5	24.5	24.0	18.5	21.0
2	21.0	19.0	20.0	26.5	22.0	24.5	25.5	21.5	23.5	24.5	18.5	21.0
3	21.0	18.5	19.5	26.0	21.5	23.5	26.0	21.5	23.5	23.5	19.0	21.0
4	20.5	18.0	19.0	25.5	22.0	23.5	27.5	21.0	24.0	23.0	19.0	21.0
5	20.5	18.5	19.5	26.0	22.5	24.0	27.5	22.5	24.5	22.5	18.0	20.5
6	20.0	17.5	18.5	26.5	23.0	24.5	27.0	22.5	24.5	22.5	18.0	20.0
7	19.5	17.0	18.0	26.5	23.5	25.0	26.0	22.5	24.0	23.0	18.0	20.5
8	18.5	17.0	17.5	26.5	23.5	25.0	26.0	21.0	23.5	22.5	18.0	20.5
9	18.0	16.5	17.0	25.5	23.0	24.5	26.5	22.0	24.0	22.0	18.0	19.5
10	19.0	17.0	18.0	25.5	22.0	24.0	26.5	22.0	24.0	20.5	16.5	18.5
11	20.0	17.5	18.5	26.0	22.5	24.0	26.5	21.0	23.5	19.5	15.5	17.5
12	20.5	18.0	19.0	26.5	23.5	24.5	25.5	21.5	23.5	19.5	14.5	17.0
13	21.5	18.5	20.0	27.0	23.5	25.0	25.0	21.0	23.0	19.5	14.5	17.0
14	22.0	19.0	20.0	27.5	24.5	26.0	26.0	20.5	23.0	20.0	14.5	17.0
15	23.0	19.0	21.0	27.5	25.0	26.5	24.0	20.5	22.0	20.5	15.0	17.5
16	22.0	20.0	20.5	28.0	24.5	26.5	23.5	19.0	21.0	20.5	15.5	17.5
17	21.0	17.5	19.0	28.5	24.5	26.5	24.5	20.0	22.0	19.5	15.0	17.0
18	20.5	16.5	18.5	28.5	24.5	26.5	26.5	21.5	23.5	19.5	15.0	17.0
19	20.5	17.5	19.0	28.5	25.5	27.0	26.5	21.5	23.5	19.0	14.5	17.0
20	21.0	17.5	19.0	28.5	24.5	26.5	25.5	21.0	23.5	17.5	15.5	16.5
21	21.0	17.0	19.0	27.5	24.5	26.0	26.5	21.5	24.0	20.5	15.0	17.5
22	22.0	18.0	20.0	27.5	22.5	25.0	26.0	21.5	23.5	21.0	15.5	18.0
23	22.5	19.5	21.0	28.0	23.0	25.5	26.5	21.5	23.5	20.0	16.0	18.0
24	23.0	20.5	22.0	28.0	23.0	25.5	26.0	21.5	23.5	18.0	15.5	16.5
25	23.0	20.0	21.5	27.0	22.0	24.5	26.0	21.5	23.5	18.0	13.5	16.0
26	23.0	18.5	21.0	27.5	22.0	24.5	26.0	21.0	23.5	16.0	14.0	15.0
27	24.0	20.0	22.0	27.5	22.0	24.5	26.0	21.5	23.5	16.5	13.5	15.0
28	24.0	20.0	22.0	26.0	23.0	24.5	26.0	21.0	23.5	19.0	13.5	16.0
29	25.0	20.0	22.5	26.0	22.0	24.0	25.0	21.0	22.5	19.0	14.0	16.0
30	26.0	21.0	23.0	26.5	21.0	24.0	24.0	19.5	21.5	19.0	14.0	16.0
31				26.5	22.5	24.5	23.5	18.0	20.5			
Vionth	26.0	16.5	19.9	28.5	21.0	25.0	27.5	18.0	23.3	24.5	13.5	17.9